



Mod-0036.ST25.txt  
SEQUENCE LISTING

<110> Carrell, et al.

<120> Alien to Mouse cDNA

<130> 2003320-0036

<140> 10/763,039

<141> 2004-01-22

<160> 163

<170> PatentIn version 3.2

<210> 1

<211> 174

<212> DNA

<213> Artificial

<220>

<223> Alien to Mouse cDNA

<400> 1

atggttgggg actgcctctc cccagtcgga tgggtccacct ctgcgtacac cccacctgat 60

ccggatgagg ccagatacac ctgtaaggct cctgaccaat tcaaaaagac acgcacctgt 120

ttgcgatccc caaagccttg cctgtcgata agtgcagagg aactcttaat gtga 174

<210> 2

<211> 651

<212> DNA

<213> Artificial

<220>

<223> Alien to Mouse cDNA

<400> 2

atggcctgca ccctggtggt agaggcccc ttgtcaaaaa ctcccgactt gactggtgac 60

ttcaatagct ccttgtcctg gtcttgccct gacaataacc cggttttggg attagtgcag 120

ctcaagggtgg cctcctcctc tagctataag tcggaggaac ttgatctgga gcttcccaag 180

cgagccaaga ttctggattc gatcagtggc acttggaaac tccatcttcg caaggagtgc 240

cgccctcattg tgtgtatgtc gcatgcctgg aaccggcggc atgcagctga tttgaaccgg 300

tgcaaatgga agggcaagag ggcaggctgg agagggggccc ccgtgctttt tgctcccatg 360

caggtgacgc gcaagtgtgc accagacccc acagagcagt caggcctctt cgataactct 420

ttcctggatc actaccagag tctggcctgc atttacctag gctcccttgc ccgaaagggc 480

tcttctctga ccaaggatgg aaagggtgat ttccagggcc cttgccttcg tgggtggccag 540

aattattcga acttttctca gagctcagcg tgttggaaac cgctggacga ccaggaacag 600

atcgcccgtc ccctcagtgt ctcgttgtag tatgcagcct tagtgggctg a 651

Mod-0036.ST25.txt

<210> 3  
 <211> 228  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 3  
 atgccaaagt tgtaaaccct gattcgggca gtcggctgct gtgagaaaca gaccctcctg 60  
 gctgccgaga gcctcaatga ccgggaggaa atctcctgtt tgttccggcg aaacctcctc 120  
 cagggaatgc ttctgggaga cagagcagat gacaatacca gtgaccacac gatagtctgc 180  
 tacaccttca tgatccccctc ccacgccagg atgcctggaa gtaggtag 228

<210> 4  
 <211> 174  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 4  
 atggaagcag agctctgttc acgaggcgtc aacagacgtg acaataactaa acttccactt 60  
 tcgtctttgc cttcagcttc tcctcatgat tccaagagat gtccgcgctc taagatcgct 120  
 cacgtctggg acaccagggc cgacggtgag atcgattcgc gaatcttgta ctga 174

<210> 5  
 <211> 306  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 5  
 atgaactctc tgtctgaata cgagacctta aggcggacca tgctgcagag ctctaacaag 60  
 tgtaactctc tgtgcaaat tgtacaaact tgggttgagg gtggcaaggc caaggccaat 120  
 atgaatggct accagaagca tttgggtcca cttcgcgttc aaatgtggga gatggcaatg 180  
 cgacttaatg gaaccagcc aaatgaattc caccggcag tccagcagtg catcctggct 240  
 ccttacctaa agactttcct cagtatgcgt cctgattcgc aaacttaccg ggccaagctg 300  
 agctga 306

<210> 6  
 <211> 156  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

Mod-0036.ST25.txt

<400> 6  
atgcctcgag ggcgtactct ggtatctcgt caagcatggc gaacagtgac cggtaaggcg 60  
ggatgctctg ggcggtatcc aagagagagc gggaccttga gtctatcgca tttttccctg 120  
gggattatgt ctaagcggag ccaggaggag ctctga 156

<210> 7  
<211> 135  
<212> DNA  
<213> Artificial

<220>  
<223> Alien to Mouse cDNA

<400> 7  
atgatgcagc cttgctccaa acaagaaaga atatgcggac ctctgactc cagcatcgag 60  
tccgcgtacc gctcagcctc tctcacttct agccctgccca cgcttgctcc ggcctttctct 120  
gcctgcccct gctaa 135

<210> 8  
<211> 144  
<212> DNA  
<213> Artificial

<220>  
<223> Alien to Mouse cDNA

<400> 8  
atgaggcgag ccctggtagt gtgccccttg gcgggaccct ggaagaacca gcggtccatt 60  
gccctggtga aagatcttcc catgaacgcc agcgttgctt catactttat agaaaggggg 120  
agcatcagct ggcatttctc atga 144

<210> 9  
<211> 165  
<212> DNA  
<213> Artificial

<220>  
<223> Alien to Mouse cDNA

<400> 9  
atggggtggg tcaaggccct gcagagtgaag agcggctggt gggtttgtatt ttctcagggt 60  
cgagtgaagc tgaaacccga gccgggccta gcgctggttg tacaccaggg ctttgaccaa 120  
acagtcacag aatgtctaag cttcacagga aagcccatgt attag 165

<210> 10  
<211> 561  
<212> DNA  
<213> Artificial

<220>

&lt;223&gt; Alien to Mouse cDNA

&lt;400&gt; 10

atgatgagct tcgaacattc cgacttctcc aatgtcgagg accgcaagct cttaacggaa	60
gcgatgtcca caggcttcga agtaatcgag tcgccgtgca agatctgcat gccaaagcttt	120
ggaggtaaaa caactgcgga tggcaaaactc acttccgtga ctcagggcat gaaacactgg	180
tctctcacca gagctagtcc cccggaccag tcgcaaaaagg gccgacccta caggagcacg	240
gtgcaagggg agattgaagc gggacagccc ccacatgaaa tctcctccga ctggtacccc	300
atgttcaaga tggaaacaga cagcccgatt aagaatgttc cccaggcaca catggggggag	360
ttcggggcact gcgacaatct ccccaatggc aacacagtga gcaaccggga gcctagggag	420
aatgggaatg tggcgccggg agtgggctta gacggacagg aagaaatggg ctggcctttgg	480
ccggttcgtc cttcttgtat gaactatttc tttaaagcat ccactctctc cttttggatg	540
ggctttcttg agcgccgcta g	561

&lt;210&gt; 11

&lt;211&gt; 480

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;223&gt; Alien to Mouse cDNA

&lt;400&gt; 11

atgggaaaat ctcgctttga gtatgcagtg acgccccctt aagcccaagc ccgcagtttg	60
ggcagatccc tgaataaaaag cccggtgttc ttgttttact ctgagactac atccctgcca	120
gccaaaggatc tcccgtgtga gtcaggactt gctgtgagag acctgagcaa caggacacag	180
aacagtctag ctatgttttt ggcttcacgg gggatcaaag accctgaaat gaagatgaat	240
tattccatct atttggggca acccttgcaa gaaggtctgt ccccggtgca ggagaacttt	300
tctcaatggg aactcccact cgtggcttac atgagctttt tctgtccctt ccgtgcgggc	360
gaccgggggt cgatccataa tcactctctc acggtcagag cgaagattga ctactgtggt	420
cagcggtgca gtgcctcaga tccaaggagg ggccctcagg actattctca aatgctctga	480

&lt;210&gt; 12

&lt;211&gt; 231

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;223&gt; Alien to Mouse cDNA

&lt;400&gt; 12

atgcgggaag agtccaagac tatctcgatc aatgggtgtga aatgggtcat tgatttgcca	60
gctgaaaaaa tcttcacgag gaactatggt gttgccgact gcaggagaag cttctacatc	120

ctgggcctgt ttggttgcca cctggtgact ggagggtacc gaacattcat gatctacatc 180  
 ggggtccattt cttctttcat catgtatgtg ggggtccgga tcattcgttg a 231

<210> 13  
 <211> 426  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 13  
 atggtgcccc aagtgtgcga gcagtggagc ctgtgttggt cctcgggcgg gttcccaaatt 60  
 cctgcaggct cttattttaga gccgtgggtca agcgacttgt ccaggagct tcagtgtccc 120  
 ggctacagcg gcttcttaag tggccccacg gattttctct ctatgggagt gtcatgtcac 180  
 ctagcacagg aatcatttcg gttcccactg caggatgatt gcctcctgac caagatgcac 240  
 aggttgaaag atttctggga ctccaccagc aggtttaagc agctgggcga atctgaggcc 300  
 cctcagcaga ttcgcaagaa aaaatcatcg tttagtttct ggggctcatc ggagaactct 360  
 gcgcccgcaa ccgaaaatac cagcaagaag tcccaggatt ctttctttga tgccatcctc 420  
 aagtga 426

<210> 14  
 <211> 192  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 14  
 atgggtgtgt cgatggccag cttcatgctc tcttctggcc tcctggatgc agaggagaa 60  
 agcttcatgt cttggcatct cagcagccct ggaacagccg tggaccgaac ggcccaaattg 120  
 tttattcact tcagaatgat ggggtcaatc ttcagtgtta ccctgacgct tgaagtcagt 180  
 cgggtctctgt ga 192

<210> 15  
 <211> 351  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 15  
 atgacaatgg aaacagggag gcacccggtc atgaaggacc aagcccttga cgaatgcgaa 60  
 cggtcgatgt ggccgggtccc ttcttgggccc tgggagagtt cttgttctca tcgtgtcgat 120  
 gagggagatg tatcgggtact gctggaacag tttcggcacc agactgaaca gctcccgccc 180

Mod-0036.ST25.txt

atgagctact ttttggacaa gccaaagctg tcttcgttcc aggaagagcc acggctgtgg	240
gtgactttat gccaggagac attgccattt cccctgggta attctgggta tgatgagcag	300
gaagaggagg gcctgtgtct ggtctgtccg ttgcccagac ttcagacatg a	351

<210> 16  
 <211> 153  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 16	
atgggtaaaa tcaatcacac cacatcgaca cctaccttga gcactttaaa aatccccaca	60
tttgaggcct tacgcccgt actatgccct agactggatc cccccacctc gtctgtccgc	120
ctggcatttg aaggccagtc tcagaaattg tag	153

<210> 17  
 <211> 324  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 17	
atggttcgca aggttgctca caatgttctg tatgagacca tgggtcagaa agctgactca	60
aagtggggaa ccagaaagaa gcagccacaa gggacccgcc tgagcaaacc ttgcaccacg	120
gtggtggagt ggctgtctgc cttcatgtac cgatcccgca agaaactgac gagccgcttc	180
tatctgaaac ctaacatgtc ttccggttct atccgctacg gagagcggca accactcttt	240
ttggacagcc tgctttggtc cgacagtgga aagggagcct ttgcctcctg caaatgctct	300
tatgctaaat cattttttga ctga	324

<210> 18  
 <211> 450  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 18	
atgagcaact acctccacat tcgttccccg gagtcggtcc ataacacctt tcctttgtgg	60
gtccatattg ctcaagcaaa gttcggtcac ctacaagcct tgttaaagcg cgagagtggg	120
tttgaagcca acaccgcgaa tgctggggccg ctaggccccc gcatcagcga tgacactcgc	180
aatatccttt tgactggatt gttcctctcc ctgaccaaga agtgtggatg tgtccagtta	240

Mod-0036.ST25.txt

cagtgtggcc gacagagtag cctcgatgcc	aaaatgccat gtgaccagca ctatagaaag	300
gtgcagtctg ccctcagcca gggctctgcag	atgggtgggtg cgtgggtgaa gcagaaagca	360
agccaggaga ttgccgggtg gctccacagc	agcagccttc aagagcaggc cttggatgga	420
tcattccaact tcgccactct gtccgtttaa		450

<210> 19  
 <211> 720  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 19		
atgcggagaa ttaagtttga gttcaagaaa	ataccttctg ttcgtttgta ccggttcttc	60
ttcggttctt gggctaagat ttctaccctg	gcatttgttg aggacaccta tacctatgcc	120
ttctggatgg aaggagcagg cttcactctt	gtctcagctg actgcattac ttcccggacc	180
tttaggagtc cacttgccaa ggacccgctg	gcttggcggc tcctggatct tgtgcgggca	240
aaaactcaag aagcgcggac gaactcagct	ttgtccttga agtgctccct gcctgatttt	300
ggtcactctg gggagatcaa cagagcccag	gcctctgaag gccagcagac ctttggctcc	360
tttgagaagc cgtcagagca tgtcctaaca	gcaaagaatc agctccaggt gatcataagt	420
tatcccttct gctatctgct catcataaccg	gaacgtccat tcgacagtag caatatgtcc	480
ttgttcagta agccaagggg gccggccttg	gaagtgattg gagtacgcct caagaccag	540
atgctagtca cgcctttcag tgagttccag	ctatattccc gtgcatttct cagagaatca	600
gatttgtctg agagctccct ctgggtgacg	atctcttttg acacggcgaa tctgtcttat	660
gtccaagcgg ctgaggaaga gtgttcattg	agaagttccc tggcttacac gtgggtcttga	720

<210> 20  
 <211> 465  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 20		
atggggatga tgctcaactt ttgtctgaga	atctactcca gcagaaaggg agacgccatc	60
atgtctggcc cttctgggtc tttccttaga	aaaaagagtg tgccctacca aacctggcga	120
gcggagcagt ctcgtaaggt aagcgtgtgc	tcctcgcagt ttactccca gaccatcttg	180
cgttggcggc cccaggatgc cgaaacagag	agacagagga gaagcggctt caagctggcc	240
atgatggcag cgggcaagtg ccagcctgtg	aacgacccca cctcttgctc ttatgaagct	300
tacctaaggc ccatctggaa tggatatgagc	tttcttgatt ggctgatctt tgtccccatg	360

Mod-0036.ST25.txt

aaccttggtg gacacagaca cagcacctcc ctgagcgcga acaagggtcac gtccatttac	420
aaggaatatg caggctattc cacctgctcg tctaccagag gctga	465

<210> 21  
 <211> 216  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 21	
atgcagtact gcgcagctgc cgcttccaag ctgttcccag ccttgccgtt aagggcccaa	60
accctcagac actacctaaa tgtggcccta cacaagtctg ccctcctggg agatctggcc	120
tggcggcgga actcggcagg gggccagggc tttatgactc tagggccaaa agagattctg	180
ccagctcagg tggccccagg tggagagttt ggatga	216

<210> 22  
 <211> 1188  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 22	
atgtatgcct gtgctgctct cagttcattc cttgccttcc caaagtacgg actgactgcc	60
aagagatacc caaccctgag aacctattgc ctctgcttat tgtggaagtg tgagaagcat	120
atthttgtggc aggggatcaa tctaacgatg cgacagggtga gtgccaatgg gacgccccatg	180
gtgaactggg ggggtgctgaa gcccaccact caccagattc tcaatgggtga cacagactgt	240
ctgtgcccgc cgaggtcatt tggtttgaag gccaatcagg cccgccgacc gaagaagtac	300
caaggctgcc tctcacggag gtgctctgct gacttcctct gttcccatgg ggctgttgta	360
agagatcagt gctcgatgat tcaagtgtct ttgagcacc ggctgccgtt ctctaattcca	420
tggattcagg tcgctgtcat gaagttcttt tgttacagaa ccaaggcctg cgcattgta	480
ggggggggta aaaaagccct atctgtgagt tggcaaaaat tccagaactt gtacgtgaca	540
cggaaagcaa tcctagtttt cagcatagct aacaagggtt ccctgactaa gataaacatc	600
cagcgggaaga agctcagtaa cagggactca gtgacagagt gcgtcttcgg actaacctat	660
aggagctttc taggtaaacg ccatgtattc gaaggagcct cactcttgac gaacggaccc	720
aaccagggga ggagcaagtg gccctgtgaa acaataagcg atcagtatta ctgtttcaac	780
aggaagttgt ctgagagcgg catgtgcttc atgttggtga gtacctgcag aggggtacctg	840
ccgccggact acctgtttgc agctctgctc aagacagtca gccggcacat cggttaaagtc	900



Mod-0036.ST25.txt

cgccaggtgt tgctttttttt agaactttac cctggctcga aggctagatc aagcgatgaa	960
attccccacg agcacaataa gacgcctgag ctggaggaaac ttccgcctat caacagctgt	1020
accagattg ccatgctcct ttgcagccgc tcctcagtga aaaccaagga cagtacgacg	1080
gcacctgttc tgtgttcttt tttccttaga ctgtttgctg aggaaatccg gctgcgctct	1140
tttgaacggg agtaccgcaa agattcttac aagtacctgc ggggtgtga	1188

<210> 23  
 <211> 126  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 23	
atggatctcg atctgcggtt cattctgtta tggaaacagg aggagctggg gctgtgtcgg	60
tacctgaaaa tgagaaaatt tagtctgcag tatgggaaga caaaaaaatg ttcctcaccg	120
gcctga	126

<210> 24  
 <211> 951  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 24	
atgggcagtc gcgccccatc gtctggtgat gaaactcaaa tccacgaact ctactcacc	60
ccccgggata ccaccttaaa ggaggggacc aagaagggcc agctaagggc atccccgtac	120
ttccttcgtg caatgccgtc cttcctttca gtcaacacac cccaccagca gttctaccac	180
cgtcagcggg ccagctttca ggactacgcg ggagatatgg cctacatcga acttttcagt	240
cagatcagtc ctactgcgca aagagcacta cagatgccaa tcaaccctgc gaacgcgggc	300
gcggtatcca tggggaaatc tttccccttc tccatgcttt tgcctcgcga ctccgtgtta	360
cccccaacca agcgcgccgtt ccaaagactt tccattccgc aatctctgac cagcaagggc	420
cactacctga gcctgtatct gctggaagga gaaatcttag caggaaccat ctccaccgta	480
gcggtggtga ccaaatggac atctcagttc tacatgtgtg tgctggctgt cctttacggt	540
caacacgcac cttccttcag tcagagggct gttgaggttg accggaagtc ccaatccaag	600
gccccaaagg ttcaggaaat gtggcgagac gggattaaat tcacgtctgg taaactcctc	660
tcctgttgtg aggggcaccg catcgccttt gactggctct tcccaaccag gttcatacag	720
attggacgtc cgggggagta cattgcagaa tgcttccagc ggtcccggag aaaggctaac	780
ttcctgaacg ttgacataaa cagctgtctg cgcaagagca ttgaaacttt ttttgggaga	840

Mod-0036.ST25.txt

aactatatgc acccgccgcg cgacccgctc tttttcaggg tgagtatccc ttgctgctat	900
tgggcactag agggaccctt ctgtgaatac cccaaattcc ttcacgctta a	951

<210> 25  
 <211> 273  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 25	
atggaaccaa tcgcgcttaa catcaactac cagcggatgc tgctatcggg gcatagctca	60
aaccagatga ttcatattgt gaacaaaatt gatcttgca ggaccccctc ttctgtaacc	120
agatcccggc tcaatgactg tagaggccct ttatgcagaa aggacaaaaa ggctgagcgc	180
gacagccagc ttggcaagcg ggtgcactat gcattgatcc ttcggttcaa tcggccaaat	240
gcgcctgaca gccaggacta ttcgctaact tga	273

<210> 26  
 <211> 198  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 26	
atgcggaagt cgctttcgcg caaactgcgg atggcctgct ccaagggcct ctccgggggtt	60
cctgtctcct cttgtcacat gcactacttc gacgggtccc tgggtggtgcg gctgacctgt	120
aagaggagac atggcttggtg caaagaacag cagggtatcg cgggcacccat cagacagaac	180
ggcaccatcc taagttag	198

<210> 27  
 <211> 213  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 27	
atgtattatc cagatattac gtatcccaag cccagcagaa ttattgagaa cttagatgaa	60
attgtttctc agtcaggatc gattgaaaat cactcccgcg cgatgattgg tctgcgtgtc	120
aactctaagt ggatgccact tggagggggc ccctacaaga tgatgcgaag cagtagaaaa	180
aaggtgagtc agtgccttct gaatgacatg taa	213

<210> 28

<211> 675  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 28  
 atgggtgatg tgggtcatgac ggaggaaagc tgcagcgcct tgggtgtttga aacatctgca 60  
 atgtctgggt tttacaagac atggacaccc cggttctacg gagtgcaggg gcatcgtgtc 120  
 tcggacctcg ctgctgttca acagccggcg cgcggtgagt ttcgaaggca cccttcaccc 180  
 tctcaacgac tgtgggcact cctgggtgca tgggtggcgtg gatctggcat cctggactcc 240  
 ggggccctgc gtgaaatgga gctgggcatc cagggtagca tacgattctg gctacctact 300  
 gcgcgctcgc ggagttgctt gctctgccga tgcctggggg ctgagatcca ggctctcaag 360  
 ggcaacaacc agaactcatt ctatcgtcag ctcttccgcc aagcttcgta ccgttatctg 420  
 agatgtagtt tggcgtagcc atcgatgggt gacttcttgc cattgcagcg cggcaagtgg 480  
 gttctcctgg gcagagggaa gcctccaggg caagctcgag ctctgaagcg cacaggggat 540  
 ggcaaggggc aggctcgatt aagaacaagt caacttggtt attccctggg agagtatgtg 600  
 caggttttcc ctttctatcc agaggaccta atgctgagta aagaccagga agacagccaa 660  
 cagagagtga actag 675

<210> 29  
 <211> 609  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 29  
 atgtcaagtg aaacttcacc ccgctgatc cctaagtcct ggagtagagg gcgcagcgaa 60  
 atttcaatcc cttccatcat tgccctgggt gagctgcttg cccgttggag gctagtcttct 120  
 ctctccattg gcaaacgtct tatgcatcct ctgcgccaga catacatgcg aatttttcca 180  
 cgaaccttta ttgtcagtaa gatccctgat ggcattggaga tcatgctaag caagtggat 240  
 gtggctaata gaactcccga gcccaagagg ttctgcctga caaccagtca atggctgagc 300  
 ctttcatga tttccccatg cacatcatal tgcagactcc gcgcatcagc aatgccgcga 360  
 ggtaggcggc ttgaagcctg gcacggactg agcaaggctg ccaaggagat cactgcatct 420  
 cggatgtatg cggagatcct cttgtccgag ttaatgccgg tggagactta tatctgttac 480  
 ttcccgaacc tcgaagccag atgtccacga aaatccccgt tttcgcgtga tgaatggagc 540  
 atgataagcg tacctttgat caacagtgtg ttccgcttgc gcttctcctg gcttgcctct 600  
 gggccttga 609

<210> 30  
 <211> 789  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 30  
 atgttcacat tcaccagagt tgggtggcct cggtccatt ggagatccgc cgtggggaac 60  
 agtgaacgac ccctcttcat atgggcagcc ggtgccctgc ggccaagga acctcttctg 120  
 tttcggttg aaaaaggccg ggggtgtggc gagctgcgga gaaggctgag atttttacag 180  
 tgtgaagcta tgtattcgaa atttctgggg atccctgaaa tgatggaaaa ctccaaggcc 240  
 gtgatcgta atttttgcac caaaatcgga cgcagggaat gggagtcgca agcgtcaatg 300  
 ctcccacagc tgtcaaat tcatgacaccg cccagtga aa gcacgctaag cagctcagcc 360  
 actttgagga tgagcctcct gtacttcgct tctgcaccca ctaacaagac aaaaattaag 420  
 ggtgtgaatt tctactcgcc tccaaccac atgcccctta agctgctaga gtgcttgaga 480  
 catgtgaacc gcgagtgtt caccaacctg ggatacctt tggcttatat gaattgcagc 540  
 atggacatcc ttaagggcaa gatttctgac gtgatgggac cgcgtgcctc agaagtcaac 600  
 tcaacagaca gtactatgtg ggtcctgtca acaggagcca cccccaccgt ggttctcatg 660  
 gaaacaacat gtgccccct gtcttgagc tacctgcctg ctctgtatga tgcaccgcgc 720  
 ttcacatccg aaacctacat ctcccttgct gaagcctgtt atcgaagcca ggcctttcag 780  
 caaatgtaa 789

<210> 31  
 <211> 258  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 31  
 atgtacctca tggcactgaa tatagagcct gaagatctgg cgggattcag caaactcact 60  
 atggacctgt attttgatga atatgcagat tccatgttgg acaagagtcc cggcctgac 120  
 gaatttctga ccgttgggac tccgaagtgt cttctggggc ctcggctgag tggtagcgat 180  
 gcccatcggg ccagtatcgc tcgggactat cgcccatga tccaacaggt gggctctgggt 240  
 gtcaacttgg tcacatag 258

<210> 32  
 <211> 264  
 <212> DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;223&gt; Alien to Mouse cDNA

&lt;400&gt; 32

atgatttccc acacaatctc cgagatcctc accgaagttc agcggcagtt cttctttctg	60
gcctgcaggg gcttcttcta tccgcctctc atgggtggcc gtgaagcttc tgaaactcag	120
ggaatggaat acggcaaggg gtggaacacc catgtccagt gtcgtaagtg caatgattgt	180
gtgtgtctgt tgggggaggt ttatgagaaa ggcataagat acagttgcag tgtgagttac	240
agatccctgg cctacctgca atga	264

&lt;210&gt; 33

&lt;211&gt; 210

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;223&gt; Alien to Mouse cDNA

&lt;400&gt; 33

atggaaccta tgtctgcatt accactcgag agcgcattga atgacaaaaa gttcagtacc	60
aagacggggg tgccaagcgg acttaaattt ggagagggtg ctccagcccc agcccccaat	120
ggcttgtcta ggaaagcttc caccagggtc caacagacgg acgttcgtgg caaccagcag	180
catgggtcta tcatgatgca gatttggtga	210

&lt;210&gt; 34

&lt;211&gt; 375

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;223&gt; Alien to Mouse cDNA

&lt;400&gt; 34

atgcacggca tccactactc gctccccacc cagactgctg acaaagcctt aggtgtgggc	60
atttcctccc aaggccagat tcctcaggca aatgctggca acctccccctt cgccgatgag	120
ccgggatggc agatgctcag gatgggtggg ggagaagacc agtcccgggt cacaacattt	180
gtcttgattc gattctgtgt aatcttcgtc ggcagggtgcc aggatatgta cctgctcaaa	240
acaacgccac ctgaactgcg ccagaatctc atgtgcctga agatggagtg cactagcgct	300
ctcaagctta aggatgcgca ggtgcagctt gacctcacgc ttcccttttg ctacgccgcc	360
acggtgtcgg cctaa	375

&lt;210&gt; 35

&lt;211&gt; 135

&lt;212&gt; DNA

&lt;213&gt; Artificial

Mod-0036.ST25.txt

<220>  
 <223> Alien to Mouse cDNA  
 <400> 35  
 atgtcaagct tcaactcaca gtacttcttc ttcgcactgg aacccacgtg gtggttctct 60  
 atgggacctg aggacattgt gatgcaccag ctctctcttt ttttcaggct gtgtggagct 120  
 gccagttacc ggtga 135

<210> 36  
 <211> 231  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA  
 <400> 36  
 atgtgccaga gggagagacg attcacatac ccgcagatta gccactgcag ggaattctgc 60  
 agaggcttca cccaaagtaa agaacctgga ggacatgaca cagctgagta caaggatctg 120  
 gctgaagccc tgccaatgaa gaacttcagc tgtccggtgc tggaggagag tttcctttac 180  
 gcaagcgaaa tgagagcttt tctcaagcag caattcgata gttggaggta g 231

<210> 37  
 <211> 180  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA  
 <400> 37  
 atgtcctggg tgctcaaaca gtttaaggta atgcgagcca gacctcaatt cctgatggca 60  
 acttcaacac aggggggaatg caccaagaac tggaatgtga ggtggaaaat atgggatctc 120  
 tcaatgctgc ttgactctca taacacctct tactttttaca tttgcgatcc ggtagtttag 180

<210> 38  
 <211> 123  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA  
 <400> 38  
 atgcattggt cccagggtgaa actgttggag cgcttcagta atagcaaaga gacgggtgct 60  
 gaagatgtgc tagaaaatgc catgccttct gaaatggcct ctacccttgg agaaagcccc 120  
 tag 123

<210> 39

<211> 147  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 39  
 atggattcgc ccacgacatt cacaaagttc acaaactgga ttttccttta ttctgtgagg 60  
 gacgaccacg tgtggctggg atctccattc cagcagttct gcttccccctt atcctctgcc 120  
 gcacctgggc cgctggcatg caattaa 147

<210> 40  
 <211> 339  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 40  
 atgagaaagg atttgagtg cctcctgtcc aaaggcacat cgaatatgct gaagagtttt 60  
 ctgatctgct gggggaaggc taccctccgc ttctgcgaag aaatgcctct cacccttgag 120  
 atggttcacc tctacatgga catccctgat gaacgctggc ctccctctaa ccagccattc 180  
 tttggaaagt tctactcgac tttcttcagc cgccacagcc ctggggccaa gctccaccgc 240  
 cctcagggtg caggaaggac acagctgtca gaggtcgtgg gcaacttgcg gtgggatcaa 300  
 tactgttggg gcaatcctca aacgcgcagg cccagttga 339

<210> 41  
 <211> 354  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 41  
 atgccctgcc tgggccgaca ggaactcgcc cgcgcgggag gtgtgccagg aagtgcggat 60  
 cggaggaaga aagcgttcag gttggaagaa gccagatatc ccctgtacat ggaggggtctt 120  
 ggatctgaga cgcaaggggc agcaaaggat caggccccct cgttccggag cccgagaatg 180  
 gccctgccct acctagact ccggcccatc aagagagtcc ccatcatctg gcggatagtt 240  
 tttcagagcc tccaccctgg cgagaagccc agggagacgt atggaaacgc ataccgggga 300  
 gaagcggcca gggcagagtt cacccaagag tctgcaagcc aaagcttcac ttga 354

<210> 42  
 <211> 267  
 <212> DNA  
 <213> Artificial

Mod-0036.ST25.txt

<220>

<223> Alien to Mouse cDNA

<400> 42

atgaccttca tgaacgtatg tatagccggg caagatgcaa cgcagccata ttatagggcc	60
agttacaata gccacagtaa agttcacacc ttggaatgtc gagttgagct caaactcaca	120
gaattaatgc gctgtgcgca tagaggaaaag ggcacccgta ccacgcgctg tcttatcact	180
gccgccttaa ttctgtgtcc cccacactcc aaagaattcg cgtacaacaa cttgctcatt	240
gcttcccaca cttggggcaa tgattag	267

<210> 43

<211> 210

<212> DNA

<213> Artificial

<220>

<223> Alien to Mouse cDNA

<400> 43

atggcaccgg acaggtccac attctcttac ctgtgggatc ctcaggatca ccatcaggac	60
gcctccccta gttctccaat tgccaggggtg tcatcacctg ccttccgggg ttatgactca	120
gaggacctcg catgcagccc cccctttcag aatgcccagc tttggtgcaa ttcgagaaac	180
tcaactgtaa tgctgtacct cacactgtag	210

<210> 44

<211> 942

<212> DNA

<213> Artificial

<220>

<223> Alien to Mouse cDNA

<400> 44

atgagcgtga gggaaactga ggcttcagac aaatctttct ttttggtctt tgcatttttt	60
ttacgaagca gtttcattgg gttcatgaga cagtctttgc atagctgtgc gaaagcacgc	120
tgcgcgacgt tcaagcccca ggaacgaatg tgtaaccagc ggaccatggt tgccaacgct	180
ccggaaccca ggctgatgac actggttggtc cgcttggtcg gccatggcgg ttgcacaata	240
gtcacttctg acccccgatc cccccagggt gagaaggccc aggatcgcta caacctcatt	300
cgggtgcccc tgtaccgggc tgcctacatc ccctgttact acatgaatgt gctatccatc	360
tcaagggaac ttgagctgct attgagctca atccagggtg aaatgagaca cccagtgagc	420
aaccggggac agttatacta tatctctggt cagggtggatc ccggctgtga caggagaatt	480
gccaagtcgc ctcgggatga ccagtcggga tctccccggc agagagatgc acccagctac	540
aaggtttcca cgttttaccg ggctagcaga gctaagagta gactaaaacg gacagacccc	600



Mod-0036.ST25.txt

aagaggacct catccagtca ttccacgttg attttgttta tgctaattctt ggacacttcg	660
aagttcatgg tgaagtccag ccggactttc actctccttc ttcaggactt ccattcagtg	720
acacggaatc agagctccag atttcagttc aggcggaatc aggaaacagc gagatctcct	780
ggagtggcca ctaaggagac gggagcgttg acacagatgt cacccttttc tccgcagtac	840
cgcagagtga ctgagtcgtt tttcttagtg cacggttctc tctctccacg tcggtgcctg	900
gagccctacc ctttagccca actggaggaa atccagaagt ga	942

<210> 45  
 <211> 357  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 45	
atgacctacc tgtggatgaa ggcgatcagc agtcatgcca agctgccggc aaacttcacg	60
atacagtcatt tctcccagtg cattcaggaa acaaccgcaa gtcctgatag agaactcctg	120
acgatgctga agcccacaag atctcaagaa gagacggacc tactgaatag actgtggccg	180
gataacctct cttctctgac ggagatgcca atctcccgtt gtctgtgcag aagcatccgc	240
ccttacacct cttcagcgga ctccgtgtct aaagagatgt gccagttttg gcaggtggcc	300
tttggcgagg ctggcaagcg tgaggactgt cctctttacc ccaggtcaat cctgtaa	357

<210> 46  
 <211> 129  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 46	
atgaaatcct gcgtggatga agaatacaagt cattgctatg ggtccgcgcg gtgggaagcg	60
cttaagcaga gcacgggttt tttcgccact cgtgagcgag agagcggctt caagcaggat	120
gggtcctga	129

<210> 47  
 <211> 156  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 47	
atgctgctga tgccagagtt gttagaaaca aaggactcaa tggaagccga atccaaattg	60
aagagcatca gcatgcagaa ggctgagttc aaagaggggg gcattttctt aggaaaacgg	120

ctcacatcgt acccgaaggt ccctctggaa tcttga 156

<210> 48  
 <211> 240  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 48  
 atgttcgcct tcttagatct gactagtttc attctcgcgg gccgggcttg gtacactacc 60  
 tcaccctctc ctgacaccga aatctggcat ttaccgcctt ctggtgctga gctgtgcaaa 120  
 gcttgctctt tgcgaacccg caatgcgaca acagactctg agtaccacac tatttcccgg 180  
 aagtacttaa ttgaccccat ctcacagctt tcgctgttta ccttaatgca cctgctctga 240

<210> 49  
 <211> 138  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 49  
 atgatgagca agcatcacac cccaaccacg gtactctgct gccaaaatga agacctgcag 60  
 ggaaccccgga ggctgcgagt gctgaacca aatcaaaata cctggggcat catcaacttg 120  
 gcctacagaa gcatgtga 138

<210> 50  
 <211> 201  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 50  
 atgaacgaca tgcatgcgct ctttgcgacc aaaacacgta tcaccgagag gggaaataag 60  
 ttcttctccc agccctcgac caactggaac acgttccagg cagaggagca ctgtcagtcc 120  
 ctcagagcgc cactccgtac cagcggatat tatggcccct catgctcagc gtacctcttt 180  
 gatatacttc tgatctcgtg a 201

<210> 51  
 <211> 240  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

Mod-0036.ST25.txt

<400> 51  
 atgatgacgc ttggttttgt ggaggcccaa atccactctt tacctctgac tctgagcgtc 60  
 ctctgctgtt tgaaaatgga tcagatggga tccattgagc ctgacagaaa gaaaaccca 120  
 gagctcgagc tgatgcccgc actcttggcc ccgagtcgtc agccaaagt cctgccagcg 180  
 gcggatcttc tcccagaggg tgctcagacg tctaccctcc tcctgggtca ggcaggttga 240

<210> 52  
 <211> 123  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 52  
 atggaagaga atggcctggc acattcctac actgggggtga agttacgggc caatgacact 60  
 ggctccctgg cgctgcgtaa gcagtcagat gtctgtgttg agtcccagac agcaagtgcg 120  
 tga 123

<210> 53  
 <211> 156  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 53  
 atgacctgtg tcctttccgg cctgtacccc aagtgggccg tgagccagag ccactatcaa 60  
 tcctgggagg gacccgacat cgctgaaggg accatcgagg atcacctgga gcgcctcaaa 120  
 ccggtcatga gacccctgat taatggtggg acgtaa 156

<210> 54  
 <211> 225  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 54  
 atgacacagt actggaggat ttgatcgtg ctgcgaattg atctgccggt ctccttccta 60  
 cagttctatg gagagagccc ccctcagtgg ttttgccgcc ccaaacgctg cttaaaaagg 120  
 tctcggtcga acggactaaa ggcacgatgc aattggcccc ctgttagctc tcgcacctac 180  
 atcaagttca agacaatgtc ctatgctctg aagtggacac cctga 225

<210> 55  
 <211> 882

<212> DNA  
<213> Artificial

<220>  
<223> Alien to Mouse cDNA

<400> 55  
atgatttgt tgaagtacat cctcttgctg tgtatttaca taaacctcct ggggtgcaga 60  
aatgcaaaga ctagctgtga gtgtcccagg ccgaccatta ggaagtatgt caggcagcct 120  
tcaatctctt gttacatgca ctggtgctgc catcggaaca caggtgagca gactgacagt 180  
ggctttacac ccaggcatga tcggcgtagc cctgacatgg ctaaggggtca gcaatgggtt 240  
gtcccggcaa tgggcagttc cggggggccat gagccgaact catctgcata cttatgctcc 300  
agagggaatat acttcagaga ccggaatgaa tgtgccgagg gcctgctcca cacttggccc 360  
ctggtgtatg acttcgtgat agaactaaca caacggttcc cttacaactc ctcgggtcac 420  
ggcattgaag acatagaatc cttcaaaaat tggaacttgt accggacttt cgtcatctcg 480  
gagggctata aactactgaa catcaagaga tcaccaaagt ctgagttatg ctcaggacgt 540  
atggcttttt ctttcctccg gctgtttctg ttccacaaga gacagccccg tggtaaaatg 600  
gcaatgcgct atgagggcaa gtggatcttt cgtggggaag gcacagagag tggcgttgtc 660  
cctctcaggg tcggactttc caagagcgca ggcaaagata ggatgtgtca gacccccatg 720  
accttagcaa ccaagggctg aaatacccgga ggctgcagg gctaccgcct catcaagctg 780  
aagtgtgctc acctgtgccg gatggatgat caggagaggg cggtccgggc catggccatc 840  
ccattcaatg gcaaggggtg ggtgacactg tctatgctgt aa 882

<210> 56  
<211> 264  
<212> DNA  
<213> Artificial

<220>  
<223> Alien to Mouse cDNA

<400> 56  
atgaagcttt gtcctatgag gtggctaggc ccgaacaagc caaacaacct ccacctgtat 60  
ttgccgccta tgggtcccata ccgccacgga ttgaggtgca catttttcaa ggccgacttc 120  
tgcagggacc cctgttggac aaatatgtgg ccaatcctca ggcgaaatct gattgcgag 180  
gcagggctgt actgtccgtt tcaggtccca ctcctggaga tgtctgattt ctccgctaac 240  
cgagaagaaa tctgggctgc ctga 264

<210> 57  
<211> 327  
<212> DNA  
<213> Artificial

Mod-0036.ST25.txt

<220>

<223> Alien to Mouse cDNA

<400> 57

atgccggttg	cgcggtatcc	cagtgacagt	ctcaaactgt	ctctgaaatc	caaggcctgg	60
gtgttccatc	aaaaccctac	tggggcccttc	acgacaaccc	ggcccgtcgg	ccgcctgcag	120
gggcggcagc	agccccccct	tggagggtcag	aagaagttgg	ccgaggagca	tcctagacgc	180
tccctggcca	aactgaaatc	ggctggggcg	agcactgggg	gacttaatat	tggggatgat	240
cggaccttcc	cgctgtgcac	gtcggcctcg	ctcagcagac	ccctcaaccc	taagagtaaa	300
cagagcaaca	ttatttgcat	ctcctga				327

<210> 58

<211> 225

<212> DNA

<213> Artificial

<220>

<223> Alien to Mouse cDNA

<400> 58

atgacaggta	tcttttgctc	ttatgccact	aaagctggaa	ctgcaatgtc	cttgagattg	60
ccccctgtaa	aggccagcaa	tgcctgtgac	ctgagccctg	gaacatgtcc	tcaggaccta	120
gatagtgaaa	tgatcaatca	ccagtattgg	aatcgccctgc	ggcagattca	atgcggtttg	180
aaatctattg	acatctttgt	caaactaaga	ccttctgtca	gctga		225

<210> 59

<211> 339

<212> DNA

<213> Artificial

<220>

<223> Alien to Mouse cDNA

<400> 59

atgaaatacc	ggtgcttggg	gcagctcact	gcctcttaca	ccatggcgga	atatttggca	60
ttggcaaaaa	caggattatt	tcccaatagg	ggttttcctc	gcaagacaga	ggggacttgg	120
gagtccagcc	tgcctcagtc	cttcgaagat	aggggaggct	caggacgcct	gacctcactg	180
caccagttcc	ctgatgtgat	ggccaaagag	gaccggaaaa	ccgaggactt	tgcggtcagc	240
tctctcccag	agatccagcg	cgtctccacg	ggccggccag	atatgagata	tatgccggaa	300
tacattgata	atggccccgg	cagcaactgt	gtgttttag			339

<210> 60

<211> 321

<212> DNA

<213> Artificial

<220>

&lt;223&gt; Alien to Mouse cDNA

&lt;400&gt; 60

atggacggag actcccacta tcgcacaggg gggaccaagc aggataccct ggtccagtac	60
acattgctcc ctgaaattga ctttttcggg gggattgctc agaatatgat gatcatgcga	120
gttgccagaa cccccccatt tggtgcagaa caccgtcagc ttatgcagga tggagggcca	180
gagcagagaa atatggaggc ccgtgaacca gccaccggc tcactaaggc gatgtatgtg	240
tcatgcaaag cagaagtcaa ggggatggtg acgagcctct ctggggtgcc gacctgcggc	300
ctgccatcgg aaaaggagtg a	321

&lt;210&gt; 61

&lt;211&gt; 192

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;223&gt; Alien to Mouse cDNA

&lt;400&gt; 61

atgcagatga ttgtcccaag tggggagaca aagatgtacc ctccgctgga ggccctccag	60
gaggatgact gtatccaggc ccagtggctg cacacaacct cccaaagctt ccatgagtta	120
gtgttaagga atgcagtccg cacaccatca aaggttacca aattcccttg caaaaagtgc	180
tgcgtcattt ga	192

&lt;210&gt; 62

&lt;211&gt; 666

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;223&gt; Alien to Mouse cDNA

&lt;400&gt; 62

atgagctgcc cttttcttct tcgtggcatt cagatgcctt ctctggagag aaccttcgtg	60
tcagatcctg gctattccat ccattttgga tctgaaatgc ttgatgttgc tcatcttgct	120
tctggcacag agcaagtcca ctgggcgaca ctagaatgtg actcgcagct cggaaggaca	180
cttgagcctc ttgaggagat cactctaagt tgggtgttgt tcctcctcaa gttcttttca	240
gaagacatct ggaaacttaa atccaaagaa cgttccggcg atgacatgct tgagaggatc	300
acatcaatgg agctcttgct gccactgaga cggctagaac agctaagctt ctattccttc	360
ttctctcagt gtactgccct tcgccggagc aagaccagcc caccaattcc tctgtgcgtg	420
tccctgggca gttgccataa gcagcaaaga acctggctgt acaatgcact gatcaagtac	480
ggggcttcga ggagaaggaa ggtccccaag cggatgccca ttgagagtcc gttcagcctt	540
gatgaggagt gtcttccatt ttcagtaatg cggcaaaggg agacacggac aattggcctc	600

acacccatca tgcagttcct gacctgttcg cccgtaaaga gtgtggatcc gagccggagg 660  
gcatga 666

<210> 63  
<211> 1311  
<212> DNA  
<213> Artificial

<220>  
<223> Alien to Mouse cDNA

<400> 63  
atgatcactg ccaaagatga gaccagatgt ctgcattcct cccgagtaga tcggtatcgg 60  
acacttgctg acccgatgtc tgaggagatg tcgtgttgcc tcctgggttg gcgcgttcac 120  
gccaaagggcc tctttgacaa aattgtccta atccagaatc ctttcatcct ccacgacttt 180  
ttcatgcggt tcccttctcc ctcccaggta cctctatatc agcgctacaa acaagacctt 240  
gataaggacc tgtgtttccag cctgccttgg tactacaacc cgaagctgcg gcagcgact 300  
tcgcagctca cctacaagct ccgcacaatc tctgttggcc caagacaaga ccatggcacg 360  
aagacgtctc tcccaatgct gactattacc caggtgactg cactgagcga cctgagaatt 420  
tttttctctg gatttgggga ggacctcccc ctggagccct ttttctcact cttttcgtgt 480  
tatcggtgcg ctttctgggt ttacagttc ctgctctata caaggaatgg cctcaagtac 540  
agcaaggcgc atgacaaaga gtgtccatgg cccttcatgt ccaacttccc acatgcccgg 600  
gcctgtcggg gttggctggt ttcgtgcttc agaaagacaa gaactttacc ctcatcgcac 660  
agcgtgaggg agatagtctt agcctcaaag tcctccgata ggtacatgaa gcattcagtg 720  
catcggagct gcagttcaac agagggtgcc gaatccaaga cgagcctgga ctgtcttaat 780  
tcaatgcaga agaagaagcg tagagatgaa gaattactcc aaacaaatga atttatgatc 840  
tcctgtggat ccctggctgt gcaataccga agcatctccg gcataattta tttgctccgg 900  
gagcagcatt acatgcacca gacccgcacc agttttcagt ttaccagga ccaatcgttc 960  
ctggctcggg agaatcacia ttgggggggt gcctctaatt actacctcct gcgcgagaag 1020  
ctggatggga agccaatgag aggcagatg ctgtcccaac acagcgtggc atgtggtttg 1080  
cagggcaaac ccattgcaac caacctgttc aagccttcag tgaacttggc agaagagttg 1140  
tctgtgaaat acactggagc tttcctgcgc tcagacgccc tgctacagct ggctcaggcc 1200  
ggactgtggc cccagaagcc gtacctgatt tggagaatca ggggtggaaa gacccacgaa 1260  
tggggcacgg gtgaactggc gctgagcatg gtcctgagct gcttagactg a 1311

<210> 64  
<211> 306  
<212> DNA  
<213> Artificial

Mod-0036.ST25.txt

<220>  
<223> Alien to Mouse cDNA

<400> 64  
atgtgctatc catcgctga ctggagaatt gtgataataa cccagttact gaatacgaga 60  
tggatcgag tcagggcact cttcatggca agtggacgca agccttggtc aaaggtgatc 120  
caagccgccca ttgcctcaat ggcacagctg ctctatgtgt caaaggccag cacattagta 180  
gggtcagtga tggaggggaag cgaggactgc agttgcgagt ttcctgatat gcctgggtatt 240  
atgggagatg tcccttcccc aatgttcact cttggcatga tcctgccatt aaccttggtt 300  
caataa 306

<210> 65  
<211> 264  
<212> DNA  
<213> Artificial

<220>  
<223> Alien to Mouse cDNA

<400> 65  
atgtgacac tttgcatgat cctccaggcc ccgacaaaga gaatgatgga tggatctgaa 60  
agtggagtgt tgcagttcct gcggagtcgc tactcagggg acctggggaga tcccatggca 120  
tttctcgagg atgattccag aagtaagccg acggagagaa ccggccttcc tgtggagatc 180  
cacatgatgt cgtttctgga ataccatggt gaactggtca acttcttctg gcgcagaagg 240  
cagcttcagg acgaaggact ttaa 264

<210> 66  
<211> 360  
<212> DNA  
<213> Artificial

<220>  
<223> Alien to Mouse cDNA

<400> 66  
atgcacaggc cactggggac taacaagggga agtgccccag tggaggggta ctctcgtcgg 60  
cccaggccaa aaaaagagcc aaattccctc ggccgcatgt tctgcatccg ctgagcttcg 120  
aacaccaatg agccttacac cttagatcct gaagactaca tgaaagcaga cgggagagta 180  
actgtggtcc cgggaagccc agcaggcctg acatccagaa gttacttaga agcgccccca 240  
ggggaacaaa cacgggagcg gcccttaggc attttggtcc cttatatgcg agccccgaag 300  
aaatactctg actacctgat gacattctgc acgcgtaagc ccttccataa gtccccatga 360

<210> 67  
<211> 285  
<212> DNA



&lt;213&gt; Artificial

&lt;220&gt;

&lt;223&gt; Alien to Mouse cDNA

&lt;400&gt; 67

atgcacttgc actacgatcg catgttattt atgcagcacg aaacgttggg tatatctatt	60
tcgcagatca atgacctctc ttgcaccacg tcaccagcca cgatggggcag gtgcataacc	120
tgggggcccc cgaggacaac ttttctgctc tttcgggaga ctgatgtcag ccacctgtgt	180
ttgatcaaac agctgagctt cttcagtcag atcctgcagt acaagcagct catgtcgaac	240
atatcggagc gcacggggacg atacatcaga agctaccatc tctaa	285

&lt;210&gt; 68

&lt;211&gt; 663

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;223&gt; Alien to Mouse cDNA

&lt;400&gt; 68

atgaggcact accctgcttg gcaagcctca gccatgctct ttgagtacac tggggatggg	60
ctccagcagt cccctagtct tctgagtctg ggctcaattg ccaatacggg gatcatacga	120
acggaccggg cccacagga gcgaacgtcc tgccataatg gtgaccttat caagagtgcc	180
ggcacctccc tgctggatat gcgagatccg catgtgtcag cggagggaggt gactccctcg	240
aacctgatga tctgcaagac tccaccctct ggtttctgcc tgtctcactc ggactgctct	300
ggagaaaagc agatggctct gagaatgtca gccagcaata tctttcaggg tcggaaaacc	360
ccggcctctc cttgccagtc gacagctacc tgcattctct ggtactccac ctcaacccgt	420
gctgactata ttcggcagtt ttacctgtgc acccgagcga atgggcgagc tccccgccag	480
aactgcattg gcatgggcat actgtcattg tattctccgg tccagatcga ctcccctccg	540
ccccagtgcc caacacccct gttgagcctg gtcggccggg tgacgaggga gtcacagcag	600
gttggggtgc aacgagccct aatgctgggt acgagcacc ctctgctcaa ccgccgcaag	660
taa	663

&lt;210&gt; 69

&lt;211&gt; 120

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;223&gt; Alien to Mouse cDNA

&lt;400&gt; 69

atgcggattg atgaaggac ccaggaggag tgtgagctct gcgctctggg cacgaagagc	60
ccagccatca tttcgctcg acagtacaga attcgaactg tgggtttcat gctcagctga	120

<210> 70  
 <211> 249  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 70  
 atgctatcgg aggcctcgag agatcgcggtg acggaaatgg ccatgatgac agattcttat 60  
 cacctgcaa ccatgcctct ggcccctgag tactctggca cgtttaggga aagctcttgg 120  
 cgaacatctc cacatgcgat tgatccaggc tggcagagcc aggtgtgtga gcagcatgat 180  
 aaccgcttga acagggagtc aatcgctcag gtcgcttattc agagagggat ctggatgagc 240  
 aagaactga 249

<210> 71  
 <211> 438  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 71  
 atgtacatgc cgattttacga gcccgaagatg gagatgtccg gtcagcccag aatcgaaaag 60  
 gcccacgagg atggcaagtt agcgacccag ctctcttccg aatatttcac cgagaaggag 120  
 ctagacctgg ttgacctatg tgagtcttac ccaatgatag tgggagattt tgggggcacg 180  
 cccaccaaga attcaataca gaccccaggc ggatcgatct acggcctggc tcagagggac 240  
 atcagcttta aattaatgtc catgtccagc agttggaaga atgtgggaag gtatgcagcc 300  
 cccttttgct taggtctctt tccgcactac gggaacatgg aactacggga acttctgttt 360  
 tcccacatga aagcgcgcga aaccagaacc acgtcaaccg agtctctgac atccatcaga 420  
 ctcaggtcag gctgggtga 438

<210> 72  
 <211> 489  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 72  
 atgtcgagat acagccggat ggccatcaag caacagcttg accagggtggg ttacacacgg 60  
 tccctttcat tcacggacct ccacttgagc aacaagcagg caggccctga aaaacatggg 120  
 aacttcaacc tctggggccg catccgggat ctcaggatgc ggtgtatcct gaagttcagc 180

Mod-0036.ST25.txt

tggggaggag aggtttttgt tcttcaatca agttgttcct ctgactcttt ctcagttgag	240
attgagttgg cagagggtgag attcctatcc taccagaact cacggttgcc agcgccacgc	300
accgactatc tgagtgcgag ccgcacttct aaaacaagct gttctctgcg cgtgttcata	360
ttgggacacc agctaaactg ccctctgtgc actgctgctt cttttattga agggaaacta	420
tgtagcaacg atactggaga ctacagctgg ccgcaagcgg gccctgtaa ctggtccgct	480
tatctgtaa	489

<210> 73  
 <211> 303  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 73 atgattggaa aagatgagat ctatatgctg tcaaagggac atcagccaag acgtaggact	60
ctgaaggcct caacccccaa cctggtcagg cccaagccgc cctgcaccat ctctgtgcg	120
gccaccttaa tgctaactctg gtttcccttc cagtgcctga tagctaagat gcagttgacc	180
ctggagacct ggtctccctg gattatctgg ctcaatctta agggatggcc ctgccggatc	240
ctgccgctta tgtacccatc aagaaagtct gcagctgact aactgactc tgtggaaaac	300
tga	303

<210> 74  
 <211> 141  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 74 atggggctct ggcggaccct gagggccgat gtcaagaaca gcgatccatc ccctttacag	60
aaagggacga aagctaagca ggtggagagc cggaaaatca tggagtacgc gcagacagag	120
gggcacatca cgttggagta g	141

<210> 75  
 <211> 180  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 75 atggctcgga acctcctggg aacaggaccc ttttcgcacg aacgccggaa ccagcaaaac	60
gctgagttgg gaactgagag tattatcctt ctggatggag ataggagaag tgcgcgcaca	120

Mod-0036.ST25.txt

tctggcaaga ggttcaagaa ggtatcttat tacttccagt gtgactgcct gacgctgtag 180

<210> 76  
<211> 141  
<212> DNA  
<213> Artificial

<220>  
<223> Alien to Mouse cDNA

<400> 76  
atggagcttc cccgctccag taagcctatg accccgtatc ctgagcgag cgggatggg 60  
cactggtgga ttatctatac caagcattcc tccagagggt cctctaatac gatctgctgt 120  
ggtccagact ctagcaaatg a 141

<210> 77  
<211> 123  
<212> DNA  
<213> Artificial

<220>  
<223> Alien to Mouse cDNA

<400> 77  
atgctccagg accgctgctt cctcgcaaag tgcctcttat ccagcatgtt atgctattac 60  
aaaaaaggct tgagcgaggc ttttggcgaa cccaatgaac agagctgcaa catgcggatg 120  
tga 123

<210> 78  
<211> 177  
<212> DNA  
<213> Artificial

<220>  
<223> Alien to Mouse cDNA

<400> 78  
atggaacaag gacctgccct ggaggaggaa aagtcagctt gccagagcct gaccttcacg 60  
tttctgagtc cctcgagagg caaccagatg cagtggaaact cccagggttg aagaaactgg 120  
actgtactgg tgccaaagga ttgtgctagt gtgtttaaga gttccatgaa cggctga 177

<210> 79  
<211> 174  
<212> DNA  
<213> Artificial

<220>  
<223> Alien to Mouse cDNA

<400> 79  
atgcagcagc cgttcgccag ttactccacc agtttcaagt caagtgatct ggcgactaac 60

Mod-0036.ST25.txt

tccagcacgc agctggtctg ttctggccat ccctcgggac ttcccttcgc ttcaatgttc	120
attagggcctt tgtcgccccc tgcgctgcgt ggcccccaa agctcggatc atag	174

<210> 80  
 <211> 363  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 80	
atgctgagcc ggtttcttaa ggcccttctg ttctcgtgct ttcagtgttc tgagcgggaa	60
aagggtgtga agaagctctc aaccatccag attgagaagg aggagccgat cgccctgtct	120
tgtggtaagg cccccattc tgacctgaac caagtgtctc ccatgtttaa tttcgagttt	180
tttcatgggc tcaacgtggc cgagaacctg gtgtctggaa ctgcttcgca ggagaagggga	240
caatgtctgct atgggtttcaa cagcaaaggc cgctctgtcc gggcactgga attcgtgtgt	300
atcagggcct tcagcaacat ccaatcggat gactccagtg acgccccttt tggcctggtt	360
tga	363

<210> 81  
 <211> 462  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 81	
atgagcggga acctccgtat caacccatgg ctgactgcct gcatctgtgg ggaaaagtcg	60
actcagtgtg ggcctgctaa ggccgccaac aacaaacgct ttcccaggga tcaggccaga	120
aagcggctgt attcgccatc cccacccatc ctgaacacaa tgatcctctc ccctaaaagt	180
tgggtcacgc tgcattgttc gaagaagcag gccccacgt gttggctgct ctccaccgcc	240
aacttaaaat tccttccatc ccagttgcaa ccggaggcag atcgaaactt ttgtagctct	300
gattaccacc gcactctccc ttgtgcgcag gctatcatca caaatttga gctgaaaatc	360
tggacctcca ccaaagcgaa cagtcccga cctgtggcga aagccctgga gttcaacacg	420
atagtgccat tgtgcaactc agaggaccgc tttattgggt ag	462

<210> 82  
 <211> 168  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

Mod-0036.ST25.txt

<400> 82  
atgtctccca acga'cattca ggtgattaca ggcttgacc aacgcttgcc agtgcttctc 60  
aacacccttc gtatgtctga caaggcattc actctttgct gcaagaagac caaccctggc 120  
agcctgaaaa tgcagatgcg gaaccgtcac ccggatcttc agaaatag 168

<210> 83  
<211> 207  
<212> DNA  
<213> Artificial

<220>  
<223> Alien to Mouse cDNA

<400> 83  
atgatgaaga ggcgaactct ctctcggatc tgcgacatat ggacagtgta cggatgcagg 60  
aaatgtaacc attacagaaa cactattctt cagtcctgt ttctcatctt ctggattgaa 120  
atgtgtgagg agcattccct tcattcatca ccgaggcaga ccgcctctc ccagttctac 180  
tcaccgagac tcaactccta cgagtaa 207

<210> 84  
<211> 144  
<212> DNA  
<213> Artificial

<220>  
<223> Alien to Mouse cDNA

<400> 84  
atggaccgcc cacacatcgt gtccatggcc tttttgaact gcgcttcctc agcggccatc 60  
ttgaagggcc ataaaatccc cctgcccata aagatcctgc gcttcgatcc actctctcaa 120  
agtactgaat ttcctcgggg gtag 144

<210> 85  
<211> 132  
<212> DNA  
<213> Artificial

<220>  
<223> Alien to Mouse cDNA

<400> 85  
atgatttttc acctgctgtg ctttgctaca ctcgatgtga ccgtgacgca cacagtggcc 60  
actgaagcct cgaatggaat gctgatcacg ccctctgaag aaatcaccag caccaggccc 120  
gtgatattgt ga 132

<210> 86  
<211> 192  
<212> DNA  
<213> Artificial

Mod-0036.ST25.txt

<220>

<223> Alien to Mouse cDNA

<400> 86

atgtgtggca caggggtag tttaccttct cagataaaac atgaaaacaa ctttttattt 60

cccgactgga caatgctaaa caagccggaa ctgtacattg gcgggattga ggagaactac 120

tgccagtaca aggggtcccat ctggatcttc aggggtggacc cgcagtcaga aggccagcgt 180

ctgaagttat ga 192

<210> 87

<211> 492

<212> DNA

<213> Artificial

<220>

<223> Alien to Mouse cDNA

<400> 87

atgatgtttg aggcctgctg cccactcgcg gattcgcagg ggaagagcaa gtccaagggt 60

ctgaggaagg gagaatctac cccgcttgga ggggggcgga agttcctgat gctgtctacc 120

agcctcagca tctactcgtg tattaacatg ggccccatct cccttaacgc acacattgat 180

gataacacac tccatcagac attcatgtcg cgctcagtcg ttgagcggct agttggaacc 240

tctcaaaagt tcgatacaca cctcatatg tgtgctgcag atgctcagta cacaaagtct 300

agacggtgtg agcaggcctt ttgggcaccc ttgtgcctg cgcttgtttt ctccatcctc 360

tctcaagaaa tgggcgacac ccccaagaaa aaccgggtgtc tgaagggtcc ccagtcctc 420

aagcgctgtt gtcaagagtc ctgcctctct ggtggctttg taatctttga caatccagtc 480

tgctacttat ga 492

<210> 88

<211> 222

<212> DNA

<213> Artificial

<220>

<223> Alien to Mouse cDNA

<400> 88

atgaatgcag aggacatgct ggggaaacac tgcgcttatg ctttttgcac agtccctatc 60

ccgaaggag ctgtgaactt gaaaaccgag tttagagtg gctgtgcgaa gtctgccaac 120

ggcaactccc gcaaagacag tgtttcaggt ccatgcccta agatgaggca gaagtgggac 180

tggggacccc gagaaggagt ggctcggaca ggagaattct ag 222

<210> 89

<211> 150

<212> DNA

<213> Artificial

&lt;220&gt;

&lt;223&gt; Alien to Mouse cDNA

&lt;400&gt; 89

atgagagtga gggcacggct gtcaatcccc ttcaccacga gatccatggc cctttgctac 60

cggaagtcgg gggacaccgg ttttgttgtg cagaaggagc cccaggatcg gtacacggga 120

aggaaatgtc aacccgtact gatgacctga 150

&lt;210&gt; 90

&lt;211&gt; 297

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;223&gt; Alien to Mouse cDNA

&lt;400&gt; 90

atggagaagc tgtcctggcg tgctggcctc ctccactctc aggatggaat aaccagggcc 60

gcctacccgg gaaaagagca gtcttcccgg ggccgcaatg cgaccttttg gacagctcag 120

cctgactccc gggcggcctc ttactcccag ctctctgtcc agaagtatcg aacaacagcg 180

atgtgcctgc ctgtgtccat gtctagtaat ctggctctcca tggagcagcg gttccggcac 240

aagctcatcc agtggcggtt gtgtctgaga atgtctagtc taaccattat gtcatag 297

&lt;210&gt; 91

&lt;211&gt; 129

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;223&gt; Alien to Mouse cDNA

&lt;400&gt; 91

atgtctttga cagattttct ttctttctgt gttctgagag taatggccaa acatctcaca 60

gactataggg cctcagctca gcttggggtgc tgtgaacagc aggcttctgc atccccgaccg 120

gaggaatga 129

&lt;210&gt; 92

&lt;211&gt; 123

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;223&gt; Alien to Mouse cDNA

&lt;400&gt; 92

atgacggcct tgggggctgc aagttatagc cgttctgttg tctatgatgg ccatccgtct 60

gcgccagagg gtggggccaa gcgtggcaag caggtgaagc catgggtcaa gcaattggaa 120

tga 123



Mod-0036.ST25.txt

<210> 93  
<211> 435  
<212> DNA  
<213> Artificial

<220>  
<223> Alien to Mouse cDNA

<400> 93  
atggtgtggc tcctaccccc cttaccattg agccactgta agaatccttt ccttcgtaag 60  
tgcttcaagt ttgagcgctc gtgtgcagga atttcttgct ctgatacgcc gccctactcc 120  
tgccgtcagg ccgagagctc cacttcatat ttttaccat tctcaatgac cagaagcacc 180  
atgaccatcc cagaccaaac caaaacctgc caggcggtgt ctgtgaccgc gttccccctc 240  
cgggaggaaa agaccaagaa cctgatgaca ttctgttaca agatgcatct gcagatgggtc 300  
ggctatccgg tcaaagacac gttcctcaaa gaggccaaagg actctgattc ttcagggact 360  
gagtttgagc tgggtgaatgg gccaccctttt tgtgggctcg ggattcagtt gaactgctgt 420  
tccccagtg cctga 435

<210> 94  
<211> 198  
<212> DNA  
<213> Artificial

<220>  
<223> Alien to Mouse cDNA

<400> 94  
atgtccaagg agattcatct gcctgttctg agccgggccc gactccctcc gagttgtgag 60  
aagcttcgag gctccccctc tgtgctctcc atgacatttg cctaccccct gcccaagcgg 120  
agccaccagg caatcgccac ggcgtcccgg gagctcatgc taaccttgga cccctcggcc 180  
aaaggaccgg ggtattga 198

<210> 95  
<211> 726  
<212> DNA  
<213> Artificial

<220>  
<223> Alien to Mouse cDNA

<400> 95  
atgcccgcga tggccactgg cgcgagtggt gcctctgcca cacggatatg cgaccgttat 60  
gcgacttccc acgtgagggc catgagatca ggggcaagac tgatcaaaca gggagtggag 120  
ctgatcaagt accgccccac cacttgcccc tacatagcca tggatgctcg cgaccttttg 180  
cgacacattc ggagccccga atgggaacct tactgctact gtctgacagc tatctcaagc 240  
tcaaagaact atcttctgct gtccgtcagg gcccctccat tctcgcaaaa gaaacgactt 300

Mod-0036.ST25.txt

cccgtggagt gggtccttca gtgtaccccc atctgcaagg cctttcaagg gtcaacttca	360
tacaagctga acatgttctc ctcttgcgcg cacactagcg ctttgacttc aagggattgc	420
aaaaagtcaa tcatgaggcg caaccattgc tacttttatc ctttcctgga tggagcagga	480
ttcccggggg ccattacatg caaaatcaga ggatgcattc tgggcatgca gaactctccg	540
gtgggccgcc ttaatgggtg ctgcaagcag tctgtcaggg atgatgagac aaaggcattc	600
ctgcagcccc gtttggctcg gacgtcaatg gtggattatg tgccgctgca actattctgg	660
gagcaagttc cgctcctcaa gtgttctctt aaccaataa gcttgaaagc cgcagggacg	720
cagtga	726

<210> 96  
 <211> 158  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 96	
atgtcttatg acttacggtg gcttcaccgt ggggccacaa tcacagccga aatcatctta	60
tcttgaagc tcccaaaagt gagaatggat ttctgctggg tgaagcagtc catggaggcc	120
atggtggcca tgaaggacca gaaagacgcc ttttgctg	158

<210> 97  
 <211> 318  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

<400> 97	
atgaccagaa gctgggccct ggtgccaccc cacctgttgg ttggagccga aacaaccct	60
gtgacttcat atgggtacaa agcgaagagc aacatacgct ttgtgttctc tgaggctttt	120
gaggctcaac agaggcacga aagccgttca accaaccatg cctgggcca gccagcaggt	180
cgaccggtcc atctcattaa ggggcaggag aaatctaggg aaaatttaga tccgagctgt	240
cccaaaccaa agggagcgga ccggagtctc acaaaggatg gaacaatgaa gcaacgatac	300
gacttctacc tgccgtaa	318

<210> 98  
 <211> 732  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Alien to Mouse cDNA

Mod-0036.ST25.txt

```

<400> 98
atgaagtatg tttcccagga agcccacctg gtctatgttt atatgtatgc ggatcactac      60
ctcagcagtg tgctgtcttc ccaagatggg cgccccctcaa acttcatcac gcgcctgaca      120
aatgcgagtg acaagtggac taacaagacg aagtccatga aggacagcta tcaggggtttg      180
tgaggagtgc ctgggatcct ggagctgaga gcacctgaca tggagctgga acttctgacg      240
aatgggaaag ccctgatggc gatccgcatg atcaacatga agaattcccc gcaggatgcc      300
aaagaggcct cgtctgcatg catggccaaa gttcccagtt tagttgtgcc atgctccggc      360
tactttgcct ggcggcagaa gggccttgag cgcaactttg atctgaaagg ccaaagtgtc      420
aaatacagaa aaaatacagg tcctggcctg tctccacctc aggtgaggac ctctatcag      480
gaaaacctgg ggacacccct tctgccacca attcagatga tgagctacct agtgatttcg      540
gacctcccc ggaggtctaa acgtgattgc aggcggggccc gtggagtctt tgccccacgc      600
gagggactag ccaaagaaca gggcaaaagc aagctccgcg cagcttacat tcacaacaag      660
ggtttcgagg gcctgactcg tgaacaagtc caggggtatg ctgagagctg tgacgttctg      720
ccacagcagt ag                                          732

```

```

<210> 99
<211> 132
<212> DNA
<213> Artificial

```

```

<220>
<223> Alien to Mouse cDNA

```

```

<400> 99
atgggcacaa agcccttctc actcaaggga aagagctaca agcagcctaa cctgaaaatg      60
caccctctcg tgcctccctt aaacagattc ttgtgtcagg gtgctgcagt tgcagagcgg      120
aaaatgcggt aa                                          132

```

```

<210> 100
<211> 441
<212> DNA
<213> Artificial

```

```

<220>
<223> Alien to Mouse cDNA

```

```

<400> 100
atgaatgggc tcctgcacac gacatataag gagaagacgt cgtatccgcg tgagggtgttt      60
gggcatagtg cagaaatttc ccgcctgtgt cctctgcctt ccagttccat ggcaacccccg      120
ccaaatgacg tgaatatggt gatccccctc aaaagacgtg cgctgacgaa cacctatggg      180
tctgcttcga ttcgtcagat gacgccgatt tacaacccta ccgtctctgc ctgggtttac      240
tcgagccaag aggcaactcaa gtgtcgttac ctgggcttcc ggcggagaat tgaaatgccc      300

```

Mod-0036.ST25.txt

ttttgtttta gtggtgcggc caacagatcc tacaactttt ctgctaagga acgcttgggt	360
cacgcacctg cctgtatccg atggcacaga tatttatgga tgaacttgga catgaaaatg	420
ttgactgccc ttcgcatctg a	441

<210> 101  
 <211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 101	
aaccaatccc atcccagggtg tgcggcgaat cggtcgatct agtcctaatt agccggatag	60
gaaaacctca	70

<210> 102  
 <211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 102	
aagaaccac gccgtctaca tatcgggcac gtgctataac gactcaggag tatttaacga	60
ccgcacggaa	70

<210> 103  
 <211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 103	
acagggtgtcc tcaaaccagc ctgaaacgtt actagggtgaa gaatcaccgc ggttgtcggt	60
agttaagcga	70

<210> 104  
 <211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 104

acccgcgtac acagtaggca ctctacggcg cgtttagcgt taatcaccaa ttttgcaata 60  
gtcaccagag 70

<210> 105  
<211> 70  
<212> DNA  
<213> Artificial

<220>  
<223> oligonucleotides identified according to the present invention as  
alien to mouse cDNA and useful for hybridization applications.

<400> 105  
acggactacc tcggccactt catttggcga cctgcggata ttgcttacga atctcgatct 60  
tccggattat 70

<210> 106  
<211> 70  
<212> DNA  
<213> Artificial

<220>  
<223> oligonucleotides identified according to the present invention as  
alien to mouse cDNA and useful for hybridization applications.

<400> 106  
agaagtcgtg tgatcgaggt agcactggga ttacgaaaa ttgccctacc ggtatacgct 60  
aggccatacc 70

<210> 107  
<211> 70  
<212> DNA  
<213> Artificial

<220>  
<223> oligonucleotides identified according to the present invention as  
alien to mouse cDNA and useful for hybridization applications.

<400> 107  
agccacata tagccacgc ggggtgctgac aacatatgtc gtatgcgagt aacgttttcg 60  
tttgagatgg 70

<210> 108  
<211> 70  
<212> DNA  
<213> Artificial

<220>  
<223> oligonucleotides identified according to the present invention as  
alien to mouse cDNA and useful for hybridization applications.

<400> 108  
atactacttt tgggtatgct agctacgtag tacccttcaa tagccgtcgc ttggtctctt 60  
gcgcgtcacg 70

<210> 109  
 <211> 70  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.  
  
 <400> 109  
 catctatcta tgtaagttac cggcatgggt tatggattcg tggaccgcga tgtgacgtag 60  
 gggtttccac 70  
  
 <210> 110  
 <211> 70  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.  
  
 <400> 110  
 cattttaccg ttaccgggaa gcgtgtgtgt ctttatttgc gcgtacccag tgttgagaac 60  
 gacggaacag 70  
  
 <210> 111  
 <211> 70  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.  
  
 <400> 111  
 ccatccgggc cataagttta tagtagcgat tgttttgccc ctaccagcga atcgcgccca 60  
 gttagtaatc 70  
  
 <210> 112  
 <211> 70  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.  
  
 <400> 112  
 cccgagcttg cgctagtacg attatgtacc gctatgtcaa tttgacgccc tcgcactgcg 60  
 gcactttatt 70  
  
 <210> 113

<211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.

<400> 113  
 ccggctcggg gtcaccgcgg aagtaccttt gagtatacga cttatcggct ttaacctgga 60  
 cgtaactaaa 70

<210> 114  
 <211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.

<400> 114  
 ccttgatgg gtaaattccc tcgtctacgc gtaacaactg aacgcgtagc gcgacggctc 60  
 caggaaatta 70

<210> 115  
 <211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.

<400> 115  
 cctttccgtg ttactcggcc ggcaaggacg cctcgtacca tctttgatag atgtatttgc 60  
 gtaaattcgg 70

<210> 116  
 <211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.

<400> 116  
 cgcgaccccg actggtagtt gcgcgctcgc attaccgagt tcacatcgca tgtactacat 60  
 tagagaaata 70

<210> 117  
 <211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.

<400> 117  
 cggccacaac tctcaggacg catataagac gcggaaaggc atacacgtct acttagagac 60  
 accgagactt 70

<210> 118  
 <211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.

<400> 118  
 ctgcttaacc gttccagagg ggcgttcgta tcaaaaaggg tgcgatttcg atcacgtcgc 60  
 agtgactcat 70

<210> 119  
 <211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.

<400> 119  
 gaatggcatc aacggcgctg tacatagtct tctcgctac ataatagcgc tagttgatag 60  
 gaaccagggg 70

<210> 120  
 <211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.

<400> 120  
 gagctgcaca cccgcagaca tcatagttag tgtaatcacg cacgtgacca gttaacccat 60  
 ttcgtggaga 70

<210> 121  
 <211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> oligonucleotides identified according to the present invention as



alien to mouse cDNA and useful for hybridization applications.

<400> 121  
 gatggattca cgaacgagca cttagtaacg cctggtactg acatcttatt gcacgtagtg 60  
 gagagcctgg 70

<210> 122  
 <211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.

<400> 122  
 gcaacgacca gctacctgtt aaccgtatat cagagtcgaa tgctcgcggt actgttcgaa 60  
 gtactcatcg 70

<210> 123  
 <211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.

<400> 123  
 gcagaattcc taaccatgca agcgtggcga ctcgtctctc gcaaagttct atacgaatca 60  
 gcgatgggta 70

<210> 124  
 <211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.

<400> 124  
 gccctctcgt cccacgttcg ctcgtcttgt tgacactact gacgggtatc cctctaaata 60  
 cttctctttt 70

<210> 125  
 <211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.

<400> 125

gcctcttcga tgggggtccgt ctggtcagta cgcacgaaaa tgcgacggta gatgtcagaa 60  
 ttgattctgt 70

<210> 126  
 <211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.

<400> 126  
 gcgggctctt gtgcaaactt atggggctag tgactcgggt gtagcacgtt ttgcgaagac 60  
 taagacagta 70

<210> 127  
 <211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.

<400> 127  
 gcgtctatga caggtcgggc acttaggcgg cgacgcttga tgtttgagtc gcagatatta 60  
 gtttataagg 70

<210> 128  
 <211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.

<400> 128  
 gctatctaac gcggtcttgc caatactacg aatggttgct acaggatatc gagtaccgca 60  
 aaatgggggc 70

<210> 129  
 <211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.

<400> 129  
 gggggcaact ctccaaccga gcgtgaatcc agcgattatt atcctactcc atactattag 60  
 cgggtatacg 70

<210> 130  
 <211> 70  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.  
  
 <400> 130  
 ggtacgaatc tcccattgca tggacaaata tagtccacgc attggacgca cccaccgatg 60  
 gctctccaat 70  
  
 <210> 131  
 <211> 70  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.  
  
 <400> 131  
 ggtcgtaccc aacctgacac gagatgtcgg cgctcgtttc gattggacga tcggatatat 60  
 gatcaagcaa 70  
  
 <210> 132  
 <211> 70  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.  
  
 <400> 132  
 gggtgttcca tgtactcgat actacctagg catcaggtgt atacgccggt ttggatgggc 60  
 gttcggcaaa 70  
  
 <210> 133  
 <211> 70  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.  
  
 <400> 133  
 gtgccacccc aattagtctt ttgtccgggc caagagtacg acaacggggt attttggtac 60  
 tatatccac 70  
  
 <210> 134

<211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.

<400> 134  
 gttaaggggtc tcgaaagatt tctactctcg acgtaccgtt ggcagcgcac taagaacggg 60  
 taatgtgctg 70

<210> 135  
 <211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.

<400> 135  
 gttaggcact tgcgcgtcaa gcgcgcaaac cctaattacg ttctgtccac gcgctagggg 60  
 tattcgtata 70

<210> 136  
 <211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.

<400> 136  
 taagatgcct gacgaaaaag tcccgtgtac ccacaacgga aagcgtgac tagatagttc 60  
 ccttagcgcc 70

<210> 137  
 <211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> oligonucleotides identified according to the present invention as  
 alien to mouse cDNA and useful for hybridization applications.

<400> 137  
 taattttggg ttgtcgaggc ataaactggt atgctcgtct cgctcgacga gcggttgaac 60  
 gcctatcgct 70

<210> 138  
 <211> 70  
 <212> DNA  
 <213> Artificial

<220>  
<223> oligonucleotides identified according to the present invention as  
alien to mouse cDNA and useful for hybridization applications.

<400> 138  
tattggccgc ggcgctaact tatatcgaga gatgtctagt ttccccaccc gttacatatt 60  
ctacggggag 70

<210> 139  
<211> 70  
<212> DNA  
<213> Artificial

<220>  
<223> oligonucleotides identified according to the present invention as  
alien to mouse cDNA and useful for hybridization applications.

<400> 139  
tattttccgg tactgagtgg aacgacatga agttggcggc caggtcgtta tttcgcagcc 60  
acgcaccact 70

<210> 140  
<211> 70  
<212> DNA  
<213> Artificial

<220>  
<223> oligonucleotides identified according to the present invention as  
alien to mouse cDNA and useful for hybridization applications.

<400> 140  
tcagatgtcg ttattaacgg gaaggtatcc ggttcactat cacggcgtt acttcgcgtt 60  
gcgaaagggc 70

<210> 141  
<211> 70  
<212> DNA  
<213> Artificial

<220>  
<223> oligonucleotides identified according to the present invention as  
alien to mouse cDNA and useful for hybridization applications.

<400> 141  
tccggctccg cagacggttt aactcgaacc ttaaaagtcg tgtgaagcta cttcgagacc 60  
atgcgctctt 70

<210> 142  
<211> 70  
<212> DNA  
<213> Artificial

<220>  
<223> oligonucleotides identified according to the present invention as

alien to mouse cDNA and useful for hybridization applications.

<400> 142  
tctgttacctt acattgtcac cacttgacag gcgcacgggtc gtttgtaaag cgactagcta 60  
cgcaggtata 70

<210> 143  
<211> 70  
<212> DNA  
<213> Artificial

<220>  
<223> oligonucleotides identified according to the present invention as  
alien to mouse cDNA and useful for hybridization applications.

<400> 143  
tggagatgcg aacgttggga gtatcaatcc ccggtgcaac cccctaatacc gacatgccgc 60  
aagtatatat 70

<210> 144  
<211> 70  
<212> DNA  
<213> Artificial

<220>  
<223> oligonucleotides identified according to the present invention as  
alien to mouse cDNA and useful for hybridization applications.

<400> 144  
tgggcgccta gagccagcat attacaggcg agctgttttc gcgtctctaa tgacgtgtac 60  
gcgattctat 70

<210> 145  
<211> 70  
<212> DNA  
<213> Artificial

<220>  
<223> oligonucleotides identified according to the present invention as  
alien to mouse cDNA and useful for hybridization applications.

<400> 145  
tgtagacagg gcgcgattgt atgggacagt ttacgcacta accgactcta caatgtagtg 60  
tttgtcgggc 70

<210> 146  
<211> 70  
<212> DNA  
<213> Artificial

<220>  
<223> oligonucleotides identified according to the present invention as  
alien to mouse cDNA and useful for hybridization applications.

<400> 146

ttccgcatga gatcaacgcg tggtaataac gtgttaagaa ccggtcgacg ccagctagac 60  
ctaatagcgtt 70

<210> 147  
<211> 70  
<212> DNA  
<213> Artificial

<220>  
<223> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 147  
tttcgactgg gggtaaaaag ctccctatatt gccgttcacg aagctacata ctggcttagc 60  
gcgtgcacaa 70

<210> 148  
<211> 23  
<212> DNA  
<213> Artificial

<220>  
<223> Anti-alien in spike control concept. Sequences of alien genes designed by linking four 70mer alien sequences together.

<400> 148  
ttctaatacg actcactata ggg 23

<210> 149  
<211> 68  
<212> DNA  
<213> Artificial

<220>  
<223> Anti-alien in spike control concept. Sequences of alien genes designed by linking four 70mer alien sequences together.

<400> 149  
ccatccgggc catacgtttt agtagcgatt gtttgcccct accagcgaat cgcgcccagt 60  
tagtaatc 68

<210> 150  
<211> 70  
<212> DNA  
<213> Artificial

<220>  
<223> Anti-alien in spike control concept. Sequences of alien genes designed by linking four 70mer alien sequences together.

<400> 150  
taattttggg ttgtcgaggc ataaactggt atgctcgtct cgctcgacga gcggttgac 60  
gcctatcgct 70

<210> 151  
 <211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Anti-alien in spike control concept. Sequences of alien genes designed by linking four 70mer alien sequences together.

<400> 151  
 gtgccacccc aatttgtctt ttgtccgggc caagagtacg acaacggggt attttggtac 60  
 tatatcccac 70

<210> 152  
 <211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Anti-alien in spike control concept. Sequences of alien genes designed by linking four 70mer alien sequences together.

<400> 152  
 gcgggctctt gtgcaaactt atggggctgg ttactcgggt gtagcacgtt ttgcgaagac 60  
 tacgacagta 70

<210> 153  
 <211> 19  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Anti-alien in spike control concept. Sequences of alien genes designed by linking four 70mer alien sequences together.

<400> 153  
 aaaaaaaaaa aaaaaaaaaa 19

<210> 154  
 <211> 70  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Anti-alien in spike control concept. Sequences of alien gene designed by linking four 70mer alien sequences together.

<400> 154  
 catctatcta tgctcagttac cggcatgggt tatggattcg tggaccgcga tgtgacgttg 60  
 gggtttccac 70

<210> 155  
 <211> 70  
 <212> DNA  
 <213> Artificial



Mod-0036.ST25.txt

```

<220>
<223> Anti-alien in spike control concept. Sequences of alien genes
        designed by linking four 70mer alien sequences together.

<400> 155
tcagatgtcg ttattatcgg gaaggtatcc ggttcactat cacggcgatt acttcgcgtt      60
gcgaaagggc                                                                    70

<210> 156
<211> 70
<212> DNA
<213> Artificial

<220>
<223> Anti-alien in spike control concept. Sequences of alien genes
        designed by linking four 70mer alien sequences together.

<400> 156
taattttggg ttgtcgaggc ataaactggt atgctcgtct cgctcgacga gcggttgcac      60
gcctatcgct                                                                    70

<210> 157
<211> 69
<212> DNA
<213> Artificial

<220>
<223> Anti-alien in spike control concept. Sequence of alien genes
        designed by linking four 70mer alien sequences together.

<400> 157
tccgcatgcg atcaacgcgt ggtcaatacg tgtttagaac cggtcgacgc cagcttgacc      60
tactgcgtt                                                                    69

<210> 158
<211> 20
<212> DNA
<213> Artificial

<220>
<223> Anti-alien in spike control concept. Sequences of alien genes
        designed by linking four 70mer alien sequences together.

<400> 158
aaaaaaaaaa aaaaaaaaaa                                                                    20

<210> 159
<211> 69
<212> DNA
<213> Artificial

<220>
<223> Anti-alien in spike control concept. Sequences of alien genes
        designed by linking four 70mer alien sequences together.

<400> 159

```

Mod-0036.ST25.txt

```

ccctctcgtc ccacgttcgc tcgtcttggt gacactactg acgggtatcc ctctaaatac      60
ttctctttt                                                                69

<210> 160
<211> 70
<212> DNA
<213> Artificial

<220>
<223> Anti-alien in spike control concept. Sequences of alien genes
      designed by linking four 70mer alien sequences together.

<400> 160
gttaaggggc tcgaaagatt tctactctcg acgtaccgtt ggcagcgcac taagaacggg      60
taatgtgctg                                                                70

<210> 161
<211> 70
<212> DNA
<213> Artificial

<220>
<223> Anti-alien in spike control concept. Sequences of alien genes
      designed by linking four 70mer alien sequences together.

<400> 161
tattttccgg tactgagtgg aacgacatga agttggcggc caggctcgta tttcgcagcc      60
acgcaccact                                                                70

<210> 162
<211> 70
<212> DNA
<213> Artificial

<220>
<223> Anti-alien in spike control concept. Sequences of alien genes
      designed by linking four 70mer alien sequences together.

<400> 162
cggccacaac tctcaggacg catataagac gcggaaaggc atacacgtct acttagagac      60
accgagactt                                                                70

<210> 163
<211> 20
<212> DNA
<213> Artificial

<220>
<223> Anti-alien in spike control concept. Sequences of alien genes
      designed by linking four 70mer alien sequences together.

<400> 163
aaaaaaaaaa aaaaaaaaaa                                                                20

```